STORM WATER POLLUTION PREVENTION PLAN (SWPPP): STEARNS ROAD CORRIDOR - STAGE I WETLAND MITIGATION SITE

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10 issued by the Illinois Environmental Protection Agency for Storm Water Discharges from construction site activities.

- A. The work under this centract will be completed on property located in unincorporated St. Charles Township. Kane County, Illinois along the New Steams Road alignment between the Fox River and Illinois Route 25. The project includes the clearing of the site, filling of existing wetlands, construction of deterition basins, compensatory storage and wetland areas and the building of the roadway embankment for New Steams Road.
- The following is a description of the intended sequence of the major activities which will disturb soil for major portions of the construction site; such as excavation and grading sequence of the construction activities may be as
- Installation of construction fencing, perimeter erosion barrier and vegetation
 Clearing of the project site as shown in the staging plan
 Grading of detention ponds and compensatory storage areas; this work is to
 be completed concurrently with the construction of Sump Pits, Pumping Basins, and Temporary Aggregate Berms
- iv) Topsoil spreading with temporary or permanent soil stabilization measures and the construction of permanent soil erosion and sediment control
- v) Removal of temporary soil erosion and sediment control measure
- of the site that is estimated to be disturbed by excavation, grading or other activities is 50 acres.
- .D. The estimates runoff coefficient for the project is 0.55 for existing conditions and 0.45 for the proposed project. Information describing the soils at the site is contained in the Soils Report for the project, which is hereby incorporated by
- E. Waters of the U.S. included within or adjacent to the project site are the Fox River, Brewster Creek, and the North Arm of Brewster Creek. There are wetlands within the project site and on the adjacent properties. The wetland boundaries are shown on the Soil Erosion and Sediment Control Plan Sheets.

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.B above. For each measure discussed, the contractor will be responsible for its implementation as indicated

Each contractor has signed the required certification on forms which are attached to and are a part of this plan.

The Soil Erosion and Sediment Control Plan drawings included define the size and location of the measures to be installed during the construction of this project:

Provided below is a description of interim and permanent stabilization practices including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized.

Except as provided in 2.A.i and 2.B, stabilization measures shall be initiated on a daily basis where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased, or on all disturbed portions of the site where construction activity will not occur for a period of 14 or more calendar

Where the initiation of stabilization measures by the $7^{\rm th}$ day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization shall be initiated as soon as practicable thereafter.

- 1. Dust Control will be accomplished using watering trucks as directed by the
- Temporary Stabilization with Straw Mulch will be used to stabilize construction areas where construction activity is halted for more than 14 days. Or areas where the final grade has been reached but cannot be permanently stabilized due to the planting season restrictions of the permanent stabilization.
- Erosion Control Blanket will be used to stabilize the construction areas where the final grade has been reached but cannot be permanently stabilized or treated with Temporary Stabilization with Straw Mulch due to the planting season restrictions.
- Temporary Fencing and Perimeter Erosion Barrier, Rolled Excelsior will be placed along tree stands to be preserved and to prevent the build up of sediment on top of the tree roots.
- Waters of the U.S. and wetlands within or adjacent to the project will be protected with Construction Fence and Perimeter Erosion Barrier, Rolled
- 6. Sheet flows exiting the site will encounter Perimeter Erosion Barrier

- Pumping Basins and Sump Pits will be constructed at all locations where the water is pumped. Riprap will be constructed at the intake hose and discharge hose. Pumping will only be permitted at these locations.
- 8. Temporary Aggregate Berms will be used to slow sheet flows and control
- Stabilized Construction Entrances will be constructed at all locations where construction traffic enters or exits the site.
- Soil Erosion and Sediment Control provided. At a minimum, Perimeter Erosion Barrier will be placed around the bottom of the stockpile.
- Temporary Stream Crossings will not be allowed, except as provided for in the U.S. Army Corp of Engineers 404 Permit.

Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows, limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.

- Initial Construction (Pre-Stage I) (See Storm Water Pollution Prevention Plan Construction Staging for more details.)
 - Installation of Temporary Fance and Perimeter Erosion Barrier, Rolled Excessor along tree stands to be preserved, Waters of the U.S. and
- Construction of Vegetative Buffers as shown on the plans
- · Remove trees, buildings and other structures

2. During Construction (Stage I to IV)

- Clear site
 Construct Pumping Basins
- Complete Earthwerk and storm sewer installation; construction of the permanent soil erosion and sediment control items
 Complete permanent or temporary soil stabilization
 Remove temporary soil erosion and sediment control measures

3. Post Construction

Maintenance of vegetation and plantings

B. Storm Water Management

Provided below is a description of measures that will be installed during the construction process to control the pollutants in storm water discharges that will occur after the construction operations have been completed. The installation of these devices may be subject to Section 440 of the Clean Water Act.

- The practices selected for implementation were determined on the basis of technical guidance contained in the IEPA's Illinois Urban Manual and other ordinances listed in the specifications. The storm water pollutant control

- Riprap Aprons at Flared End Sections
 Pipe Restrictors and Weirs in Detention Pond Outfalls
 Rock Check Darns (Leaky Berns) between compensatory storage areas
 Aggregate Berms along New Stearns Road embankment
- 5. Permanent Vegetation and Plantings
- ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural, physical, and biological characteristics and functions are maintained and protected (i.e., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities). Storm water management control includes
- Riprap Aprons at Flared End Sections
 Aggregate Ditch Checks
 Level Spreader
 Permanent Vegetation

- i) Non Hazardous Waste Disposal: The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other iterris will be collected and disposed of off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on-site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the U.S., except as authorized by a Section 404 Permit.
- ii) Hazardous Waste Disposal: Shall conform to the IDOT Special Provision, iii) Sanitary Waste Disposal: The provisions of this plan shall ensure and
- iii) Sanitary Weste Disposal: The provisions of this plan shall ensure and demonstrate compliance with the applicable State and/or local waste disposal, sanitary sewer, or septic system regulations. The Contractor shall not create or allow unsanitary conditions.
 iv) Off-Site Vehicle Tracking: Each site shall have one or more Stabilized Construction Entrances in conformance with the plan details. Where the contractor's equipment is operated on any portion of the traveled surface or structures used by traffic on or adjacent to the project, the contractor shall before for the three-bet the stability that the best first at the bit state of the project. clean (not flushing of) the traveled surface of all dirt and debris at the end of each day's operations or more frequently if directed by the Engineer

- Dewatering Devices: If dewatering devices are used, discharge locations shall be protected from soil erosion. All pumped discharges shall be routed though a sump off into a pumping basin.
- shall be protected from some reason. An appropriate discharges shall be routed through a sump pit into a pumping basin.

 vi) Site Cleanup: Trapped sediment and other disturbed soils resulting from the disposition of temporary soil erosion and sediment control measures shall be permanently stabilized to prevent further soil erosion and sedimentation.

The management practices, controls, and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual standards and specifications. Proceduras and requirements specified in applicable soil erosion and sediment control plans or storm water management plans approved by local officials shall be described or incorporated by reference below. Requirements specified in soil erosion and sediment control plans, site permits, storm water management site plans, or site permits approved by county, state, or local officials that are applicable to protecting surface water resources are, upon submittal of a Notice of Intent (NOI), incorporated and protections under this permit is protection.

The soil erosion and sediment control for this site must meet the requirements of the following agencies:

Kane-DuPage Soil and Water Conservation District Kane County Division of Transportation Kane County Forest Preserve District Illinois Department of Transportation Illinois Environmental Protection Agency U.S. Army Corp of Engineers

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, soil erosion and sediment control measures, and other protective measures identified in this plan and standard

The Contractor will assign a Soil Erosion and Sediment Control Manager (SESCM) to the project. His duties will be to supervise the maintenance of the Soil Erosion and Sediment Control measures and implementation of this plan.

- A. Vegetative Soil Erosion Measures The vegetative growth of temporary and permanent seeding, vegetative filters, etc., shall be maintained periodically and supplied adequate watering and fertilizer. The vegetative cover shall be removed
- B. Pumping Basins shall be cleaned of sediment when the sediment has reached a depth of 50% of the height of the aggregate berm.
- C. Perimeter Erosion Barrier will be examined regularly and repaired as necessary. Sediment shall be removed when it reaches a height equal to 50% of the height
- D. Temporary Seeding for Erosion Control will be repaired when bare stops and
- E. Stabilized Construction Entrances shall have sediment build up removed as

The Engineer will be responsible for conducting soil erosion and sediment control inspections. The Contractor's SESCM shall be notified when the inspections are to take place and is expected to be present during the inspection. A maintenance inspection report will be completed after each inspection. A copy of the report is to be completed by the inspector and stored on-site with a copy given to the contractor

The inspection shall include all disturbed areas of the construction site which have not been finally stabilized, the structural control measures, locations where vehicles enter or exit the site and all major outfalls. Such inspection shall be conducted at least once every seven calendar days and within 24 hours of the end of a rain storm (or equivalent snowfall) that is 0.5 inches or greater. Depth of rain fall will be mined by an on-site rain gauge. The Engineer shall read the rain gauge daily

- A. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and waterways. Soil crosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. If repair is necessary, tivil be initiated within 24 hours of the completion of the inspection report. Where discharge locations or points are accessible, they shall be inspected to ascertain whether the measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site tracking.
- B. Based on the results of the inspection, the description of potential pollutant sources identified in Section 1 above and pollution prevention measures identified in Section 2 above, the Storm Water Pollution Prevention Plan shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspection shall be implemented within seven calendar days following the inspection
- C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this Storm Water Pollucino Prevention Plan, and action taken in accordance with Section 4.8 shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with Part Vi.G of the general permit.

CONTRACT NO. 83862

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 361 06-00214-03-BR KANE 52 27 TO STA. FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT

D. If any violations of the provisions of this plan are identified during the conduct of the construction work covered by this plan, the Engineer shall complete and file an "Incidence of Noncompliance" (IGN) report for the identified violation. The Engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information about the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which rray have resulted from the non compliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.6 of the general permit. The report of noncompliance shall be mailed to the following address:

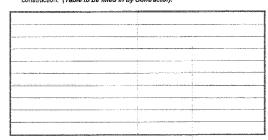
> illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section #19 1021 North Grand East P.O. Box 19276 Springfield, IL 62794-9276

Except for flows from fire fighting activities, sources of non-storm water that may be combined with storm water discharges are treated by the measures included in this plans. These sources included the following:

- Water used to control dust
- · Pavement wash waters where spills or leaks of toxic or hazardous materials have
- not occurred (unless spilled materials have been removed)
- Uncontaminated ground water materials such as solvents
- · Foundation or footing drains where flows are not contaminated with process

6. Inventory for Pollution Prevention Plan

The materials or substances listed below are expected to be present on site during construction. (Table to be filled in by Contractor).



7. Spill Prevention - Material Management Practices

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

The following good housekeeping practices will be followed on site during the construction project:

- An effort will be made to store only enough product required to do the job
- . All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.

 Products will be kept in their original containers with the original manufacturer's.
- . Substances will not be mixed with one another unless recommended by the
- The site superintendent will inspect daily to ensure proper use and disposal of materials on site.
- . Whenever possible, all of a product will be used up before disposing of the
- . Manufacturers' recommendations for proper use and disposal will be followed

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME DATE	ILLINOIS DEPARTMENT OF	TRANSPURTATION
	STORM WATER F	POLLUTION
	PREVENTION PLAN	
	SCALE: VERT. N.T.S HORIZ.	DRAWN BY RCB
	DATE 9/13/2006	CHECKED BY MEK

DATE NAME SCALE NAME